Date: Wed, 15 Dec 93 04:30:43 PST
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V93 #111
To: Ham-Space

Ham-Space Digest Wed, 15 Dec 93 Volume 93 : Issue 111

Today's Topics:
ORBS$344.MISC.AMSAT
Two-Line Orbital Element Set: Space Shuttle

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

Date: 10 Dec 93 16:58:00 GMT
From: gatech!howland.reston.ans.net!sol.ctr.columbia.edu!math.ohio-state.edu!
news.cyberstore.ca!nntp.cs.ubc.ca!alberta!nebulus!ve6mgs!
usenet@rutgers.rutgers.edu
Subject: ORBS$344.MISC.AMSAT
To: ham-space@ucsd.edu

SB KEPS @ AMSAT $ORBS-344.M
Orbital Elements 344.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH,TX December 10, 1993
BID: $ORBS-344.M
TO ALL RADIO AMATEURS BT

Satellite: MIR
Catalog number: 16609
Epoch time: 93343.56114036
Element set: 20
Inclination: 51.6180 deg
RA of node: 58.4213 deg

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Eccentricity: 0.0005383
Arg of perigee:    74.5508 deg
Mean anomaly:     285.6216 deg
Mean motion:   15.58960993 rev/day
Decay rate:     1.0605e-04 rev/day^2
Epoch rev:           44645
Checksum: 291

Satellite: HUBBLE
Catalog number: 20580
Epoch time:      93343.39583333
Element set:     379
Inclination: 28.4711 deg
RA of node:        14.8965 deg
Eccentricity: 0.0005601
Arg of perigee:   267.3006 deg
Mean anomaly:     145.0087 deg
Mean motion:   14.90298067 rev/day
Decay rate:       2.98e-06 rev/day^2
Epoch rev:             105
Checksum: 290

Satellite: GRO
Catalog number: 21225
Epoch time:      93341.66776924
Element set:       4
Inclination: 28.4617 deg
RA of node:       121.0915 deg
Eccentricity: 0.0031871
Arg of perigee:   286.3791 deg
Mean anomaly:      73.2946 deg
Mean motion:   15.46763151 rev/day
Decay rate:      6.624e-05 rev/day^2
Epoch rev:            2736
Checksum: 300

Satellite: UARS
Catalog number: 21701
Epoch time:      93342.65260819
Element set:     418
Inclination: 56.9828 deg
RA of node:       202.5066 deg
Eccentricity: 0.0005874
Arg of perigee:   102.5209 deg
Mean anomaly:     257.6002 deg
Mean motion:   14.96251149 rev/day
Decay rate:      3.629e-05 rev/day^2
Epoch rev:           12240
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Checksum: 285

Satellite: POSAT
Catalog number: 22829
Epoch time: 93341.80894716
Element set: 208
Inclination: 98.6692 deg
RA of node: 54.3707 deg
Eccentricity: 0.0010935
Arg of perigee: 37.7065 deg
Mean anomaly: 322.4792 deg
Mean motion: 14.27988203 rev/day
Decay rate: 9.1e-07 rev/day^2
Epoch rev: 1038
Checksum: 313

/EX

Date: Mon, 6 Dec 1993 16:13:07 MST
From: swrinde!cs.utexas.edu!math.ohio-state.edu!news.cyberstore.ca!nntp.cs.ubc.ca!
alberta!nebulus!ve6mgs!usenet@network.ucsd.edu
Subject: Two-Line Orbital Element Set: Space Shuttle
To: ham-space@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are
carried on the Celestial BBS, (513) 427-0674, and are updated daily (when
possible). Documentation and tracking software are also available on this
system. As a service to the satellite user community, the most current
elements for the current shuttle mission are provided below. The Celestial
BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using
8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation
and software are also available via anonymous ftp from archive.afit.af.mil
(129.92.1.66) in the directory pub/space.

HST
1 20580U 90037B   93339.57493170 .00028070 00000-0 26172-2 0 3718
2 20580 28.4705 39.5197 0004900 49.8661 310.3057 14.92996262   474
STS 61
1 22917U 93075A   93340.21665509 .00000271 00000-0 18280-4 0   161
2 22917 28.4699 35.3802 0005051 69.3021 146.6976 14.92803280   572
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Dr TS Kelso   Assistant Professor of Space Operations
tkelso@afit.af.mil   Air Force Institute of Technology

End of Ham-Space Digest V93 #111
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